

Remarks

The Applicant respectfully requests reconsideration of the present U.S. Patent application as amended herein. No claims have been amended, added, cancelled, or withdrawn in this response. Thus, claims 56-114 are pending in this application.

Objection to the Specification

The specification was objected to under § 608.01 of the MPEP as including an embedded hyperlink. In response, the Applicant respectfully requests that the paragraph starting on page 11, line 10 of the specification be replaced with the paragraph shown below. The Applicant respectfully requests that the objection to the specification be withdrawn.

Base Station Architecture

The preferred embodiment of the inventive method and apparatus is implemented in a communication receiver, in particular, a Personal Handyphone System (PHS)-based antenna-array communication station (transceiver) such as that shown in Fig. 1, with M antenna elements in the antenna array. The PHS standard is described, for example, in the Association of Radio Industries and Businesses (ARIB, Japan) Preliminary Standard, Version 2, RCR STD-28 and variations are described in Technical Standards of the PHS Memorandum of Understanding Group (PHS MoU -- see www.phsmou.or.jp). The preferred embodiments of the present invention may be implemented in two versions of the communication station of Fig. 1, one aimed at low-mobility PHS system, with $M=4$, and another, aimed at a wireless local loop (WLL) system, with a variable number, with typically $M=12$.

Claim Rejections § 102(e)

Claims 56-114 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,141,567 issued to Youssefmir, et al. (*Youssefmir*). For at least the reasons set forth below, the Applicant submits that claims 56-114 are not anticipated by *Youssefmir*.

The Manual of Patent Examining Procedure ("MPEP"), in § 2131, states:

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *Verdegaal Bros. V. Union Oil Co. California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). "The identical invention must be shown in as complete detail as is contained in the ... claim." *Richardson v. Suzuki Motor Co.*, 869 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989).

Thus, under 35 U.S.C. § 102, a claim is anticipated *only if* each and every element of the claim is found in the cited reference and the cited reference must show the invention in as complete detail as contained in the claim.

Independent claims 56 and 104 recite the following:

determin[ing] one or more signatures of one or more interferers;
and

modify[ing] the antenna processing strategy by incorporating the determined one or more signatures of the one or more interferers with the received signal data to reduce one or both of antenna transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers.

(Emphasis added). Independent claim 80 similarly recites, "the circuitry to determine the signatures of one or more interferers and to incorporate the interferer signatures with the received signal data to modify the processing strategy by reducing one or both of antenna

transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers.”

Regarding independent claims 56, 80, and 104, the Office action directs the Applicant’s attention to the following passages of *Youssefmir*: the abstract; column 8, lines 6-16; column 13, lines 12-54; and column 18, line 11 through column 22, line 27. The Applicant respectfully notes, however, that the Office action does not specify which passage (or passages) is being applied to which elements of the Applicant’s claim (or how the passage is being applied to the claim). The Applicant respectfully notes that the Code of Federal Regulations requires that, in rejecting claims, the Office action must designate “as nearly as practicable” the particular part relied on and the “pertinence of each reference ... must be clearly explained.” 37 CFR 1.104. The Applicant further notes that *Youssefmir* is generally directed to a “method for computing strategies ... from a past signal ... by adding a scaled version of a present signal into the past signal.” See, for example, column 4, lines 6-10.

Youssefmir does not, however, disclose “determin[ing] one or more signatures of one or more interferers” or “modify[ing] the antenna processing strategy by incorporating the determined one or more signatures of the one or more interferers with the received signal data to reduce one or both of antenna transmit signal strength in, and sensitivity of the antenna to signals from, one or more interferers,” as recited in independent claims 56, 80, and 104. For at least the above-stated reasons, the Applicant respectfully submits that *Youssefmir* does not anticipate independent claims 56, 80, and 104.

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Response to Office Action of March 12, 2004

Atty. Docket No. 015685.P024
Examiner Tran, Pablo N.
TC/A.U. 2685

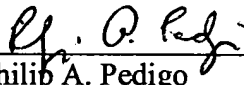
Claims 57-79 depend from claim 56. Claims 81-103 depend from claim 80.
Claims 105-114 depend from claim 104. Because dependent claims include the
limitations of the claims from which they depend, the Applicant submits that claims 57-
79, 81-103 and 105-114 are not anticipated by *Youssefmir*.

Conclusion

The Examiner is respectfully requested to contact the undersigned by telephone if
such contact would further the examination of the present application. Please charge any
shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,
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